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# NOTICE OF ALLOWANCE AND FEE(S) DUE

22850

7590

01/13/2004

OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
1940 DUKE STREET
ALEXANDRIA, VA 22314

EXAMINER
PRICE, ELVIS O

PAPER NUMBER

PRICE, ELVIS O

ART UNIT

DATE MAILED: 01/13/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/088,073	06/12/2002	Kiyoshi Fuda	220036USOPCT	7579

TITLE OF INVENTION: METHOD OF TREATING FLUORINE COMPOUND AND TREATED SUBSTANCE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	04/13/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### **HOW TO REPLY TO THIS NOTICE:**

I. Review the SMALL ENTITY status shown above.

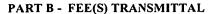
If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.





Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where

indicated unless corrected maintenance fee notification	below or directed otherwise	in Block 1, by (a)	specifying a new co	orrespondence address;	and/or (b) indicating a sepa	arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus		
	590 01/13/2004			have its own certificate of mailing or transmission.		<b>3</b> ,
P.C. 1940 DUKE STRE		MAIER & NE	·	I hereby certify that the States Postal Service vaddressed to the Mai	tificate of Mailing or Trans is Fee(s) Transmittal is bein with sufficient postage for fir I Stop ISSUE FEE address TO, on the date indicated bel	g deposited with the United st class mail in an enveloped above, or being facsimile
ALEXANDRIA, V	/A 22314					(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	FI	IRST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/088,073	06/12/2002		Kiyoshi Fuda		220036USOPCT	7579
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PRICE,	ELVIS O	1621		570-140000		
1. Change of correspondence	e address or indication of "Fe	ee Address" (37	2. For printing on	the patent front page,	list (1) the	
CFR 1.363).				3 registered patent at atively, (2) the name		
☐ Change of correspond Address form PTO/SB/1	ence address (or Change of C 22) attached.	Correspondence	firm (having as a	member a registered	attorney or 2	
☐ "Fee Address" indicate PTO/SB/47; Rev 03-02 Number is required.	ion (or "Fee Address" Indicat or more recent) attached. Use	tion form e of a Customer		mes of up to 2 regists. If no name is listed		
3 ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON TH	HE PATENT (print of	or type)		<u>-</u>
PLEASE NOTE: Unless	an assignee is identified bel ed to the USPTO or is being s	low, no assignee dat submitted under sepa	ta will appear on the arate cover. Complet	patent. Inclusion of a	ssignee data is only appropri Γ a substitute for filing an ass UNTRY)	ate when an assignment has ignment.
Please check the appropriate	e assignee category or catego	ries (will not be prin	nted on the patent);	🖸 individual 🔘 o	corporation or other private g	roup entity 🖸 governmen
4a. The following fee(s) are	enclosed:	4b.	Payment of Fee(s):			
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Director for Patents is reque	ested to apply the Issue Fee an	nd Publication Fee (	if any) or to re-apply	any previously paid is	ssue fee to the application ide	entified above.
(Authorized Signature)		(Date)				
NOTE: The James For an	d Dublication Foo (if requir	ad will not be see	antad from anyone			
other than the applicant; interest as shown by the re	d Publication Fee (if require a registered attorney or age cords of the United States Pa	ent; or the assignee itent and Trademark	or other party in Office.			
estimated to take 12 minu	ation is required by 37 CFR by the public which is to fi y is governed by 35 U.S.C. I ties to complete, including g m to the USPTO. Time wi	athering, preparing,	and submitting the			
case. Any comments on suggestions for reducing Patent and Trademark 22313-1450. DO NOT SEND TO: Commissioner	the amount of time you this burden, should be sent Office, U.S. Department SEND FEES OR COMPLE for Patents, Alexandria, Virginia Patents	require to complete to the Chief Inform of Commerce, Ale TED FORMS TO ginia 22313-1450.	this form and/or lation Officer, U.S. exandria, Virginia THIS ADDRESS.			

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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

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1940 DUKE STRI	EET		ART UNIT	PAPER NUMBER
ALEXANDRIA, V	VA 22314		1621	
			DATE MAIL ED: 01/13/200	4

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 52 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 52 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)			
Al . 4' P All L 'l'4 -	10/088,073	FUDA ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Elvis O. Price	1621			
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	lication. If not included will be mailed in due course. <b>THIS</b>	; tive		
1. This communication is responsive to the election filed 10/3	0/ <u>03</u> .				
2. The allowed claim(s) is/are 1-10 and 12-19 (now renumber					
3. The drawings filed on 12 June 2002 are accepted by the E					
4. Acknowledgment is made of a claim for foreign priority ur					
a) ⊠ All b) ☐ Some* c) ☐ None of the:					
1. ☐ Certified copies of the priority documents have	been received.				
2. Certified copies of the priority documents have					
3. ⊠ Copies of the certified copies of the priority do	• • •				
International Bureau (PCT Rule 17.2(a)).		3 11			
* Certified copies not received:					
5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.					
(a) The translation of the foreign language provisional a	* *				
6. Acknowledgment is made of a claim for domestic priority up in the first sentence of the specification or in an Application	nder 35 U.S.C. §§ 120 and/or 121 sin Data Sheet. 37 CFR 1.78.	nce a specific reference was includ	led		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	this communication to file a reply co	mplying with the requirements note ITH PERIOD IS NOT EXTENDABLE	ed LE.		
7. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
<ul> <li>8. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.</li> <li>(a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached</li> <li>1) hereto or 2) to Paper No</li> </ul>					
• • • • • • • • • • • • • • • • • • • •	orrection filed which has be	en approved by the Examiner.			
<ul><li>(b) ☐ including changes required by the proposed drawing correction filed, which has been approved by the Examiner.</li><li>(c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No</li></ul>					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
9. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T					
Attachment(s)					
1☐ Notice of References Cited (PTO-892)	5 ☐ Notice of Informal Pa	tent Application (PTO-152)			
2☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6⊠ Interview Summary (F	PTO-413), Paper No. <u>10</u> .			
3⊠ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No. <u>7</u>	3), 7⊠ Examiner's Amendme	ent/Comment			
4☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	9 ☐ Other .	t of Reasons for Allowance			
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$\sim$ 1621					

Application/Control Number: 10/088,073

Art Unit: 1621

#### **DETAILED ACTION**

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Stefan U. Koschmieder on 1/8/04.

The application has been amended as follows:

Claim 11 has been canceled.

In claim 1, line 2, the phrase "(hereinafter said to as the fluorine compound)" has been replaced with ", hereinafter the fluorine compound".

In claim 2, line 1 and 2, the words "the fluorine compound" have been replaced with the words "an organic compound having a fluorocarbon chain, hereinafter the fluorine compound,".

In claim 2, line 6, the word "the" has been deleted.

In claim 7, line 3, the word "of" has been replaced with the words "or a".

In claim 7, line 3, after the word "having" replaced the word "the" with the word "a".

In claim 8, line 4, the period, "." has been replaced with a colon, ":".

Application/Control Number: 10/088,073

Art Unit: 1621

In claim 9, line 1, the words "for fluorine compound" have been replaced with the words "an organic compound having a fluorocarbon chain, hereinafter the fluorine compound,".

In claim 9, line 5, after the word "by" deleted the word "the".

In claim 10, line 1, the words "a fluorine compound" have been replaced with the words "an organic compound having a fluorocarbon chain, hereinafter the fluorine compound,"

In claim 10, line 5, after the word "by" deleted the word "the".

In claim 16, line 3, the word "of" has been replaced with the words "or a".

In claim 16, line 3, after the word "having" replaced the word "the" with the word "a".

In claim 17, line 4, the period, "." has been replaced with a colon, ":".

In claim 18, line 1, the words "for fluorine compound" have been replaced with the words "an organic compound having a fluorocarbon chain, hereinafter the fluorine compound,".

In claim 18, line 5, after the word "by" deleted the word "the".

In claim 19, line 1, the words "a fluorine compound" have been replaced with the words "an organic compound having a fluorocarbon chain, hereinafter the fluorine compound,".

In claim 19, line 5, after the word "by" deleted the word "the".

### Reasons for Allowance

The following is an examiner's statement of reasons for allowance: Applicants' treatment process of a solution containing an organic compound having a fluorocarbon chain is unobvious over the prior art or record. Although the closest prior art of record {WO 9410973} teaches that layered double hydroxides may be prepared by adding divalent and trivalent metal salts to a solution containing nonhalogenated compounds such as monocarboxylic acids, monoalkyl and monoalkyl ether sulphates, alkyl benzene sulphonates and/or mixtures thereof, the prior art of record does not teach or suggest adding the divalent and trivalent metal salts to a solution containing a fluorinated organic compound. All claims (1-10 and 12-19) are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elvis O. Price whose telephone number is 703 605-1204. The examiner can normally be reached on 8:30 am to 5:00 pm; Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann R. Richter can be reached on 703 308-4532. The fax phone numbers for the organization where this application or proceeding is assigned is 703 308-4556.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308-1235.

Elvis O. Price, Ph.D.

January 8, 2004

Johann R. Richter, Ph.D. Esq. Supervisory Patent Examiner

Technology Center 1600